| Sheet | 1 | of | 13 | |
|--------|---|-----|----|--|
| D11001 | | 0.1 | | |

| | | | ! | (p | U U | P L 3 | 0 2 | 002 | • | • | | Sheet | l of <u>13</u> |
|---------------------|-----|------|-----|----------|-----|----------|-----------|---------------|----------------------------------|----------|----------|---------------|----------------|
| Form PTO- | 44 | 9 | | K) | 2 | | | - ES | ATTY. DOCKET NO. | | SE | RIAL N | 0. |
| U.S. DEPA | RTI | ΜEÌ | NT | OF | E. | RAD | FMA9 | KOH | 60,132-074 | | 09/ | 674,585 | |
| COMMERC | E I | PAT | EN | T A | ANÌ | DT | RAI | DEMARK | | | | | |
| OFFICE | | | | | | | | | A DDI ICANITA | | | | |
| | | | | | | | | | APPLICANT: DeWeerd et al. | | | | |
| | | | | | | | | | De weerd et al. | | | | |
| INF | OR | MA | TIC | ON | DI | SCI | OS | URE | 1 | | | | |
| STA | TE | ME | ENT | B | ΥA | PP | LIC | ANT | | | | | |
| | | | | | | | | | FILING DATE | | | GRO | |
| | | | | | | | | | 04/16/02 | | | 28 | 72 |
| | | | | | | | | | | | | | |
| | | | | | | | | IIS PATI | ENT DOCUMENTS | | | | |
| Examiner | D | OCII | mer | nt N | Jo. | | | Date | Name | Cla | SS | Sub- | Filing |
| Initial | | - Cu | | | ٠٠. | | | 2 | | | | Class | Date |
| 4 | 4 | 6 | 2 | 6 | 6 | 8 | 4 | 12/02/86 | Landa | 250 | <u> </u> | 328 | 07/13/83 |
| 7/ | | | _ | | Ļ | | | 00,000,000 | | 1250 | | C10 | 10/20/06 |
| N | 3 | ₽ | 9 | 5 | 3 | 4 | 2 | 09/08/98 | Gravely | 359 | , | 618 | 10/30/96 |
| W. | 5 | 3 | 5 | 5 | 2 | 7 | 5 | 10/11/94 | Schroeder et al. | 356 | 5 | 317 | 09/30/92 |
| m ¹ | 5 | 0 | 9 | 1 | 6 | 5 | 2 | 02/25/92 | Mathies et al. | 250 |) | 458.1 | 06/01/90 |
| Of | 5 | 8 | 4 | 7 | 0 | 1 | 9_ | 12/08/98 | Conrad et al. | 422 | 2 | 2 | 03/07/97 |
| M | 5 | 7 | 3 | 6 | 2 | 3 | 7 | 04/07/98 | Conrad et al. | 428 | | 474.4 | 04/25/95 |
| W | تح | 5 | 0 | 6 | 0 | 9 | 8 | 04/09/96 | Zarling et al. | 435 | j | 6 | 09/04/91 |
| 100 | | | | | | | F | OREIGN PA | ATENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | mer | nt N | lo. | | | Date | Name | Cla | SS | Sub- Class | Filing Date |
| | | | | | | | | | | | | | |
| | _ | _ | - | | H | Н | | 1 6 | $+\Lambda /F_{-}$ | + | | <u> </u> | |
| | | | | | | | $\perp L$ | | | | | _ | |
| | | | | | | | 1 | \cup | 1 () | | | | |
| | ┢ | - | | | H | | - | | | - | | | |
| | | | | | | | | | | <u> </u> | | | |
| OTHER D | OC | UM | EN | TS | (Ir | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc.) | | | | |
| | | | | | | | | | . / | | | | |
| | | | | | | | | | 0/1/ | | | | |
| | | | | | | | Д | -// | | | | | |
| | | | | | | | / : | - | | | | | |
| | _ | | | | | -/ | _ | $+ \cup -$ | 1 V - | | | | |
| | | | | | | | | <u> </u> | | | | | |
| | | | | | | (| | | | | | | |
| | | | | | | | | | | | | | |
| Examiner | 2 | Û | or. | | 2 | P | u | Sett D | ate Considered 6/16/63 | | | _ | |
| Examiner: 1 | | | | | | | | | r or not citation is in conforma | | /ith I | MPEP 60 | 9. Draw |
| | | | | | | | | | considered. Include copy of | | | | |
| communicat | | | | | | | | | | | | | |

| Form PTO- U.S. DEPA COMMERO OFFICE | RTN | ME | NT TEN | TT Z | BA | <u>ge</u> | well's | DEMARK | ATTY. DOCKET NO. 60,132-074 | | | RIAL NO 674,585 | |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------|-------------------|-------------------|-------------|---------------|------------------------------|----------|----------|--------------------|----------------|
| | | | | | | | | | APPLICANT: DeWeerd et al. | | | | |
| ľ | | | | | | | | URE | - | | | | |
| STA | ATE | MI | ENT | r B | Y A | PP. | LIC | ANT | FILING DATE | | · | GRO | |
| | | | | | | | | | 04/16/02 | | | 287: | 2 |
| | | | | | | | | U.S. PATI | ENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | | Sub- Class | Filing Date |
| 100 | 4 | 2 | 8 | 4 | 8 | 9 | 7 | 08/18/81 | Sawamura et al. | 250 |) | 461 | 03/31/78 |
| N. | 4 | 7 | 3 | ý | 9/ | 6/ | 3 | 03/22/88 | Kimura et al. | 250 | | 201 | 12/15/86 |
| W | 4 | 8 | 2 | 7 | 1 | 2 | $\not \sim$ | 05/02/89 | Goldstein | 250 | | 234 | 04/29/87 |
| m. | 5 | 0 | 3 | 5 | 4 | 7 | 6 | 07/30/91 | Ellis et al. | 350 | | 6.5 | 06/15/90 |
| W | 5 | 0 | 6 | 5 | $\circ \setminus$ | $\circ \setminus$ | þ | 11/12/91 | Hakamata et al. | 250 | | 216 | 10/17/90 |
| W | 5 | 0 | 2 | 2 | 3 | 8 | 2 | 12/10/91 | Kamentsky | 364 | <u> </u> | 413.08 | 10/02/89 |
| All | 5 | 0 | 8 | 1 | 3 | 5 | 0 | 01/14/92 | Iwasaki et al. | 250 |) | 234 | 09/24/90 |
| | | | | | | | F | | ATENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | SS | Sub- Class | Filing Date |
| | | | | | | | | | 11/ | | | | |
| | | | | | | | Λ | 12 | | | | _ | |
| | | | | | | | \prod | | 11/ | | | | |
| | | | | | | | | | | <u> </u> | | | |
| OTHER D | OC | UM | EN | ITS | (Iı | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc.) | | | | |
| | | | | | | | | <u></u> | | <u>-</u> | | | |
| | | | | | | | _A | | Al | | | | |
| } | | | | | | | 4 | +/-) | /// <i>/</i> // | | _ | | |
| | | | - | | | | μ | | | | | | |
| | _ | | | | | | ! | | | | | | |
| Examiner | Examiner () (1/63) | | | | | | | | | | | | |
| | (polen 2 1 man (6/160) | | | | | | | | | | | | |
| line through | Examiner: Initial if references considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | | | | |

| Sheet | 3 | of | 13 |
|-------|---|----|----|
| CHOOL | | O. | 10 |

| | Sheet <u>3</u> of <u>13</u> | | | | | | | | | | | | | |
|-----------------------------------------------------------|-----------------------------|----------|-----|------|-------------|------|-----------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------------------|----------------|--|
| | | | | 110 | l 2 | ο. | 2002 |)C5 | | | | Sheet | 3 of <u>13</u> | |
| Form PTO- U.S. DEPA COMMERO OFFICE | RTN | ME | | ΩF | ì | | ن | DEMARK | ATTY. DOCKET NO. 60,132-074 | | | RIAL N 674,585 | 0. | |
| | | | | | | | | | APPLICANT: DeWeerd et al. | _ | | | | |
| | | | | | | | | URE | | | | | | |
| STATEMENT BY APPLICANT FILING DATE 04/16/02 GROUP: 2872 | | | | | | | | | | | | | | |
| | U.S. PATENT DOCUMENTS | | | | | | | | | | | | | |
| Examiner | D | ocu | me | nt N | lo. | | | Date | Name | Cla | ss | Sub- Class | Filing Date | |
| Initial | 5 | 0 | 8 | 4 | 6 | 1 | 2 | 01/28/92 | Iwasaki et al. | 250 |) | 216 | 10/22/90 | |
| 9//- | 5 | 1 | 2 | 2 | 6 | 5 | 3 | 96/16/92 | Ohki | 250 |) . | 216 | 08/09/90 | |
| 100 | 5 | 1 | 2 | 7 | 7 | 3 | 0 | 07/07/92 | Brelle et al | 356 | 5 | 318 | 08/10/90 | |
| - H | D | 3 | 6 | 9 | 3 | 5 | 3 | 04/30/96 | Hofman-IGL | 014 | | 116 | 08/11/94 | |
| M | 5 | 1 | 3 | 2 | 5 | 2 | 6 | 07/21/92 | Iwasaki | 250 |) | 201.3 | 04/09/91 | |
| an an | 5 | 1 | 5 | 3 | 4 | 2 | 8 | 10/06/92 | Ellis | 250 |) | 234 | 02/24/92 | |
| - ZIJY | l | <u> </u> | L | | <u> </u> | | F | OREIGN PA | ATENT DOCUMENTS | <u> </u> | | <u> </u> | | |
| Examiner Initial | D | ocu | me | nt N | lo. | - | · · · <u>-</u> · · <u>-</u> | Date | Name | Cla | SS | Sub- Class | Filing Date | |
| | | | | | | | | | _ | | | | | |
| | | | | | | | | 110 | 1 IF | | | | | |
| | | | | | | | | V(_ | 100 | | | | | |
| | | | | | | | |) | | | | | | |
| OTHER D | OC | UM | EN | ITS | (I1 | nel. | Aut | hor, Title, Da | ate, Pertinent Pages, etc.) | | | <u> </u> | | |
| | | | | | | | | | | | | | · | |
| | | | | | | | | | 1,5 | | | | | |
| | | | | | | | | 1/5 | 1 JF. | | | | | |
| | | | | | | | \underline{I} | | | | | | | |
| | | | | | | | | | | | | | | |
| | | Δ_ | | | | | | <u> </u> | | | | | | |
| Examiner | (In | | ca | • | 2 | -(7) | L | mage | ate Considered 6/16/03 | | | | | |
| Examiner: | niti: | al if | ref | ere | nce t in | s cc | nsid | ered, whether | or not citation is in conformations considered. Include copy of | ance v | vith I | MPEP 60 with next | 09. Draw | |
| communica | | | | | | JUI | | | The state of the s | | | | | |

| Sheet | 4 | of | <u>13</u> |
|-------|---|----|-----------|
|-------|---|----|-----------|

| Form PTO- U.S. DEPA COMMERC OFFICE | PARTMENT OF 60,132-074 09/674,585 ERCE PATENT AND EMARK | | | | | | | | | | | |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|------|-----|------|------------|----------------|-----------------------------|--------------|-----------------|----------------|
| | , | | | | | | | | APPLICANT: DeWeerd et al. | <u> </u> | | |
| | | | | | | | | | De Weerd et al. | | | |
| | | | | | | | | URE ANT | | | | |
| | | | | | | | | | FILING DATE 04/16/02 | | | OUP: 372 |
| • | U.S. PATENT DOCUMENTS | | | | | | | | | | | |
| Examiner Initial | D | ocu | mei | nt N | lo. | | | Date | Name | Clas | Sub- Class | Filing Date |
| 01 | 5 | 1 | 4 | 4 | 4 | 7 | 7 | 09/01/92 | White | 359 | | 01/30/91 |
| W) | 5 | 1 | 6 | Ø | 7 | 5/ | 7 | 12/01/92 | Kimura | 250 | 234 | 11/20/91 |
| Me | 5 | 1 | 9 | 2 | 9 | 8 | 0 | 03/09/93 | Dixon et al. | 356 | 326 | 06/26/91 |
| W | 5 | 2 | 2 | 5 | 6 | 7 | 1 | 07/06/93 | Eukuyama | 250 | 216 | 04/06/92 |
| 08 | 5 | 2 | 6 | 0 | 5 | 6 | 9 | 11/09/93 | Kimura | 250 | 234 | 06/29/92 |
| W | 5 | 2 | 6 | ٥ | 3 | 7 | 8 | 11/09/93 | Bliton et al. | 250 | 461.1 | 04/30/92 |
| - Not | 5 | 2 | 7 | 4 | 2 | 4 | 0 | 12/28/93 | Mathies et al. | 02/24/92 | | |
| - 4///- | <u> </u> | <u>l</u> | | | I | L | F | OREIGN PA | TENT DOCUMENTS | I | L | |
| Examiner Initial | D | ocu | mei | nt N | lo. | | | Date | Name | Clas | S Sub- Class | Filing Date |
| | | | | | | | | | | | | |
| | | | | | | | | 116 | NIK | , | | |
| | | | | | | | | 700 | | | | |
| | | | | | | | | | | | | |
| OTHER D | oc | UM | EN | ITS | (Iı | ıcl. | Aut | hor, Title, Da | ate, Pertinent Pages, etc.) | | | |
| | | | | | | | | | | | | |
| | | | | | | | | 1/0 | 1/1/ | | | |
| | | | | | | | $/\!\!\!/$ | 101 | VV | | | |
| | _ | | | | | | / | | | | | |
| | | | | | | | | | | | | |
| Examiner | | 7 | | | _ | 0 | / a | | ate Considered (((() | | | |
| | (forley Fritall 6/160) | | | | | | | | | | | |
| line through | aminer: Initial if references considered, whether or not citation is in conformance with MPEP 609. Draw through citation if not in conformance and not considered. Include copy of this form with next numerication to applicant. | | | | | | | | | | | |

| Form PTO-1449 U.S. DEPARTMENT OFFICE U.S. DEPARTMENT OFFICE | | | | | | | | | ATTY. DOCKET NO. 60,132-074 | | | RIAL NO 674,585 | 0. |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|------|-----|--------------|-----|---------------|------------------------------|-----|------------|--------------------|----------------|
| | | | | | | | | | APPLICANT: DeWeerd et al. | | | | |
| | | | | | | | | URE ANT | | | | | |
| 317 | -X11 | 21411 | 2147 | D | 1 7 | u 1) | LIC | AUVI | FILING DATE 04/16/02 | | | GRO 28 | |
| | | | | | | | | U.S. PATI | ENT DOCUMENTS | | | - | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | ıss | Sub- Class | Filing Date |
| AND | 5 | 2 | 8 | 3 | 4 | 3 | 3 | 02/01/94 | Tsien | 250 |) | 234 | 10/05/92 |
| W. | 5 | 2 | 9 | 6 | 7 | 0 | 3 | 03/22/94 | Tsien | 250 | 5 | 235 | 04/01/92 |
| 100 | 5 | 3 | 0 | 4 | 8 | 1 | 0 | 04/19/94 | Amos | 250 |) | 458.1 | 07/16/91 |
| ON | 5 | 3 | 4 | 3 | 0 | 3 | 8 | 08/30/94 | Niefilwaki et al. | 250 |) | 234 | 12/10/92 |
| CN | 5 | 3 | 5 | 5 | 2 | 5 | 2 | 10/11/94 | Haraguchi | 359 | • | 369 | 01/26/93 |
| W W | 5 | 3 | 8 | 1 | 2 | 2 | 4 | 01/10/95 | Dixon et al. | 350 | , - | 72 | 08/30/93 |
| M | 5 | 3 | 8 | 6 | 1 | 1 | 2 | 01/31/95 | Dixon | 250 |) | 234 | 12/23/92 |
| 241 | <u> </u> | | <u></u> | I | | | F | OREIGN PA | ATENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | ıss | Sub- Class | Filing Date |
| | | | | | | | | | | | | | |
| | | | | | | | | 1 12 | 01/2 | | | | |
| | | | | | | | | 700 | 10 | | | | |
| | | | | | | | | | | | | | |
| OTHER D | OC | UM | Œ | ITS | (Iı | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc. | .) | | | |
| | | | | | • | | | | | | - | | |
| | | | | | | | | _ | | | | | · |
| | | | | | | | | 11/5 | 1/2 | | | | |
| | | | | | | | 7 | V | 100 | | | | |
| | | | | | | | | | | - | | | |
| | | | | | | | | | | | | | |
| Examiner | lon | le | u | _ | 2 | 1 | uS | that D | ate Considered 6/16/6 | 63 | | | |
| | Examiner: Initial if references considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next | | | | | | | | | | | | |
| communica | | | | | | J-011 | | and not | | | | | |

· Dy

| | | | 1 | 0 | | | | <u>.</u> / | | | | | |
|---------------------|------|-------|-----------------------|-------|--------------|------|------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------------|----------|
| Form PTO-1 | 144 | 9 | • | (i) | | | | ŖĬ | ATTY. DOCKET NO. | | | RIAL NO |). |
| U.S. DEPAI | RTI | ME] | NΤ | OK | & TF | PADI | MAR | | 60,132-074 | | 09/ | 674,585 | |
| COMMERC | E | PAT | EN | IT A | AN | ĎΪ | KAI | DEMARK | | | | | |
| OFFICE | | | | | | | | | | | | | |
| | | | | | | | | | APPLICANT: DeWeerd et al. | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | URE ANT | | | | | |
| 317 | | /1411 | <i>7</i> 1 1 1 | | 1 1 | | Lica | | FILING DATE | | | GRO | UP: |
| | | | | | | | | • | 04/16/02 | | | 2 | |
| | | | | | | | | | 04/10/02 | | | | _ |
| | | | | | | | | IIC DATE | | | | | |
| - · | - n | | | | - | | | | ENT DOCUMENTS | Cla | | Sub- | Filing |
| Examiner Initial | D | ocu | mei | nt N | 10. | | | Date | Name | | | Class | Date |
| | 5 | 3 | 8 | 9 | 7 | 8 | 3 | 02/14/95 | Shionoya et al. | 250 |) | 234 | 06/09/93 |
| 70 | 5 | 4 | / | 2 | 3 | 8 | 2 | 09/19/95 | Shionoya et al. | 385 | | 1 | 07/25/94 |
| Al | 5 | 4 | 5 | 9 | 3 | 2 | 3 | 10/17/95 | Hueton et al. | 250 |) | 458.1 | 07/19/94 |
| M | 5 | 5 | 3 | 5 | 0 | 5 | 2 | 07/09/96 | Jorgens | 359 |) | 388 | 07/14/93 |
| 20 | 5 | 5 | 5 | 7 | 1 | 1 | 3 | 09/17/96 | Moorhouse et al. | 250 |) | 559.38 | 02/18/94 |
| M | 5 | 5 | 7 | 8 | 8 | 1 | 8 | 11/26/96 | Kain et al. | 250 | / | 234 | 05/10/95 |
| M | 5 | 4 | 2 | 4 | 8 | 4 | 1 | 06/13/95 | Van Gelder et al. | 356 | , | 417 | 05/28/93 |
| # | | l | | | <u> </u> | L | F | OREIGN PA | ATENT DOCUMENTS | | | | |
| Examiner | D | ocu | mei | nt N | Jo. | | | Date | Name | Cla | SS | Sub- | Filing |
| Initial | ן בי | ocu | 11101 | iit I | ٠٠. | | | Date | Titaline | " | | Class | Date |
| - Intiai | | Г | | Ι΄ | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | 15 1 | V. | | | | |
| | | | | | | | 71 | 1010 | | | | | |
| | | | | | | | | | | | | | |
| OTHER DO | OC | UM | EN | ITS | (Iı | ncl. | Aut | hor, Title, D | ate, Pertinent Pages, etc.) | | | | |
| | | | | | | | | - | | | | | |
| | | | | | - | _ | | | | | | | |
| | | | | | | | 1 | 1/ | | | | | |
| | | | | | | | / | /() /\ | 14 | | | | |
| | | | | | | 7 | U | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | _ | | | | | • | |
| Examiner | 1 | De | | ~ | 5 | | S | of D | Pate Considered 6/16/6 | 3 | | | |
| Examiner: I | | | | | | | | | r or not citation is in conforma | | ith I | MPEP 609 | Draw |
| | | | | | | | | | t considered. Include copy of | | | | |
| communicat | | | | | | | 11 | | The state of the s | | | | |

1 ...

| Form PTO- U.S. DEPAI COMMERC OFFICE | I44 RTI CE I | 9 MEI PAI | NT TEN | IT. | g JR | ADE | MARY KAI | DEMARK | ATTY. DOCKET NO. 60,132-074 | • | | RIAL N 674,585 | О. |
|----------------------------------------------|--------------------|-----------------|----------------------------------------------|------|--------|-------|--------------|-------------------------------|------------------------------------------------------------|--------------------------|---------------|-------------------|----------------|
| 011102 | | | | | | | | | APPLICANT: DeWeerd et al. | | | | |
| | | | | | | | | URE ANT |] | | | | |
| S1 <i>F</i> | 11 E | EIVIE | ZIN I | В | 1 A | MPP) | LIC | 41N I | FILING DATE 04/16/02 | | | | OUP: 72 |
| | | | | | | • | | U.S. PATI | ENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | iss | Sub- Class | Filing Date |
| 7 | 5 | 0 | 3 | 7 | 2 | 0 | 7 | 08/06/91 | Tomei et al. | 350 | ó | 444 | 03/28/88 |
| W. | 4 | 9 | 7 | 2 | 2 | 5 | 8 | 11/20/90 | Wolf et al. | 358 | 3 | 93 | 07/31/89 |
| M | 4 | 8 | 7 | 7 | 9 | 6 | 6 | 10/31/89 | Tomei et al. | 250 |) | 458.1 | 01/29/88 |
| W | 4 | 7 | 5 | 8 | 7 | 2 | 7 | 07/19/88 | Tomer et al. | 250 |) | 458.1 | 02/12/86 |
| 01 | 4 | 5 | 2 | 5 | 0 | 3 | 0 | -06 /25/85 | Montagu et al. | 350 | | 255 | 08/26/82 |
| M | 5 | 6 | 6 | 8 | 6 | 4 | 4 | 09/16/97 | Kuroina et al. | 358 | 3 | 480 | 03/29/95 |
| AD | 5 | 5 | 8 | 1 | 0 | 8 | 2 | 12/03/96 | Hansma et al. | 250 |) | 306 | 03/28/95 |
| //// | <u> </u> | | <u>. </u> | L | | | F | OREIGN P | ATENT DOCUMENTS | 1 | _ | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | iss | Sub- Class | Filing Date |
| | | | _ | | | | | | | | | | |
| | | | | | | | | 1/2/ | VR. | | | | |
| | | | | | | | | 000 | | | | | |
| | | | | | | | | | | | | | |
| OTHER D | OC | UM | IEN | ITS | (Ir | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc. | .) | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | 1 | 10 N | E | | | | |
| [| | | | | | / | | <u> </u> | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Examiner | In | l | eu | | \leq | ? /k | itt | wu | Pate Considered | | | | |
| Examiner: I | cit | atio | n if | no | t in | s cor | nsid forn | lered, whethe nance and no | r or not citation is in confe t considered. Include cop | ormance v y of this f | vith l orm | MPEP 60 with nex |)9. Draw t |

| Sheet | 8 | of | 13 | |
|-------|---|----|----|--|
| | | | | |

| | | | (| / B | JUL | 3 | 0 200 | VC58 301 | | | | Sheet | 8 of <u>13</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------|------|--------|------|------|-------------|---------------|--------------------------------|-----------|------|--------------------|----------------|
| Form PTO- U.S. DEPA COMMERO OFFICE | RTN | ΜEΙ | | | | | EMAS RAI | | ATTY. DOCKET NO. 60,132-074 | | | RIAL NO 674,585 | 0. |
| INF | INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | | | | | | | | |
| STATEMENT BY APPLICANT FILING DATE 04/16/02 GROUP: 2872 | | | | | | | | | | | | | |
| | | | | | | | | U.S. PATI | ENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | mei | nt N | lo. | | | Date | Name | Cla | ss | Sub- Class | Filing Date |
| Thurs | 5 | 5 | 5 | 7 | 4 | 5 | 2 | 09/17/96 | Harris | 359 | | 368 | 02/06/95 |
| 00 | 5 | 5 | 6 | 3 | 7 | 1 | 0 | 10/02/96 | Webb et al. | 356 | | 445 | 10/28/94 |
| 100 | 5 | 5 | 7 | 3 | 9 | 0 | 9 | 11/12/96 | Singer et al. | 435 | | 6 | 05/20/94 |
| 00 | 5 | 5 | 8 | 1 | 3 | 4 | 5 | 12/03/96 | Oktobal | 356 | | 4.01 | 12/28/94 |
| W/ | 5 | 5 | 8 | 3 | 3 | 4 | 2 | 12/10/96 | Ichie | 250 | | 459.1 | 09/07/95 |
| 01 | 5 | 5 | 8 | 7 | 8 | 3 | 2 | 12/24/96 | Krause | 359 | | 385 | 10/20/93 |
| OF THE STATE OF TH | 5 | 5 | 8 | 9 | 9 | 3 | 6 | 12/31/96 | Uchikawa et al. | 356 | | 345 | 09710/93 |
| | | L | | | | | F | OREIGN PA | ATENT DOCUMENTS | _ · · · _ | | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | ss | Sub- Class | Filing Date |
| | | | | | | | | | | | | | |
| | | | | | | | 4 | 151/1 | | | | | |
| | | | | | | | / L | 10,00 | | | | | |
| | | | | | | | | | | | | | |
| OTHER D | OC | UM | EN | ITS | (Ir | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc.) | | | | |
| | | | | | | | | | · | | | - | |
| | - | | | , | _ | | | | , | | | | |
| | | | | | | _/ | 4, | 10/ | <u> </u> | | | | |
| | | | | | | • | | - | | | | | |
| - | _ | | | | | | | ···· | | | | | |
| Examiner | 7 1 |) | | | | 1 | 14 | JAI D | ate Considered 6/16/6 | <u></u> | | | |
| Examiner: I | Examiner: Initial if references considered, whether or not citation is in conformance with MPEP 609. Draw | | | | | | | | | | | | |
| line through | cita | atio | n if | no | t in | cor | ıforn | nance and not | considered. Include copy o | f this fo | rm ' | with next | |

| Sheet9 | of | 13 |
|--------|----|----|
|--------|----|----|

| | | | (| | JUL | 3 | P & | V 3058 | | | | Sheet | 9_ of <u>13</u> |
|---------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|----------|---------------|------------|-------------|-----------------|---------------------------------------------------|--------------------|------------|---------------|-----------------|
| Form PTO- U.S. DEPAI COMMERO OFFICE | RTI | MEI | NT. | OF IT | ANI | RAD D T | EMAR RAI | DEMARK | ATTY. DOCKET NO. 60,132-074 SERIAL NO. 09/674,585 | | | D. | |
| | | | | | | | | | APPLICANT: DeWeerd et al. | | | | |
| | | | | | | | | URE ANT | FILING DATE 04/16/02 | GROUP: 2872 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | | | | | |
| Examiner Initial | | ocu | | nt N | | | | Date | Name | Cla | | Sub- Class | Filing Date |
| TWA | 5 | 5 | 9 | 4 | 2 | 3 | 5 | 01/14/97 | Lee | 250 |) | 201.3 | 06/07/95 |
| W. | 5 | 6 | F | 4/ | 7 | 0 | 8 | 03/25/97 | Koishi et al. | 250 |) | 244 | 01/25/96 |
| ON . | 5 | 6 | 3 | 1 | 7 | 3 | 4 | 05/20/97 | Stern et al. | 356 | 5 | 317 | 02/10/94 |
| M | 5 | 6 | 4 | 6 | 4 | 1 | 1 | 07/08/97 | Kain et al | 250 |) | 458.1 | 02/01/96 |
| ne | 5 | 6 | 4 | 8 | 2 | 2 | 1 | 07/15/97 | Suga | 435 | ; | 7.21 | 06/14/94 |
| Poll | 5 | 6 | 7 | 2 | 8 | 8 | 0 | 09/30/97 | Kain | 250 | / <u> </u> | 458.1 | 03/15/96 |
| -ANT | 3 | 6 | 7 | 4 | 6 | 9 | 8 | 10/07/97 | Zarling et al. | 435 | ; | 7.92 | 03/30/95 |
| - yp. | | | | | <u> </u> | | F | OREIGN PA | ATENT DOCUMENTS | <u> </u> | | | |
| Examiner Initial | D | ocu | mer | nt N | lo. | | | Date | Name | Cla | ss | Sub- Class | Filing Date |
| | | | | | | | | | | | | | |
| | | | | | | | | 101 | 1 | | | i | |
| | | | | | | | 7 | | | | | | |
| | | | | | | | | | | | | _ | |
| OTHER D | OC | UM | EN | TS | (Ir | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc.) | | | | |
| | | | | | | | | | | | | | |
| <u> </u> | | | | | | | | | | | | | |
| | | | | | | 1 | 7 | 2/ | 1/- | - | | | |
| | | | | | 7 | V | / | - 10 | | | | | |
| | | | | | • | | | | | | | | |
| | | | | | | | | | | | | | |
| Examiner | 2 | De. | cu | | $\overline{}$ | P | 13 | all D | rate Considered 6/16/0 | 3 | | | |
| | | | | | | | | | r or not citation is in conform | ance w | | | |
| line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | | | | | |

| Form PTO- U.S. DEPA COMMERO OFFICE | | | NT EN | OR OT | | <i>DAR</i> | BeM | ARK | ATTY. DOCKET NO. 60,132-074 SERIAL NO. 09/674,585 APPLICANT: | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|----------|----------------------------------------------|-----|------------|---------------------------------------|----------------|----------------------------------------------------------------|---------|-------------|---------------|----------------|
| | | | | | | | | | DeWeerd et al. | | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | | | | | | | | | | |
| | | | | | | | | | FILING DATE 04/16/02 | | GROUP: 2872 | | |
| U.S. PATE | | | | | | | | | ENT DOCUMENTS | | | | |
| Examiner Initial | Document No. Date | | | | | | | | Name | Cla | ss | Sub- Class | Filing Date |
| TW | 5 | 6 | 7 | 5 | 1 | 4 | 5 | 10/07/97 | Toda et al. | 250 |) | 234 | 07/03/95 |
| 00 | 5 | 7 | 6 | ø | ૭ | 5 | 1 | 06/02/98 | Dixon et al. | 359 |) | 385 | 08/30/93 |
| 1 | 5 | 6 | 8 | 2 | 0 | 3 | 8 | 10/28/97 | Hoffman | 250 |) | 458.1 | 04/06/95 |
| M | 5 | 6 | 9 | 1 | 8 | 3 | 9 | 11/25/97 | Kobayashi | 359 |) | 385 | 04/11/94 |
| AP | 5 | 7 | 0 | 5 | 8 | 2 | · 1 | 01/06/98 | Barton et al. | 250 |) | 458.1 | 11/07/96 |
| W | 5 | 7 | 1 | 3 | 3 | -6 | 4 | 02/03/98 | Debaryshe et al. | 128 | 3 | 664 | 08/01/95 |
| - 4 | 5 | 7 | 4 | 2 | 4 | 1 | 9 | 04/21/98 | Dickensheets et al. | 359 |) | 201 | 12/19/95 |
| // | | | L | | | | F | OREIGN PA | TENT DOCUMENTS | | | | |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | ss | Sub- Class | Filing Date |
| | | | | L | | | | | | | | | |
| | | | | L | | | 47 | SAL | | | | | |
| | | | _ | | | - (| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 0,00 | | \perp | | | |
| | | | | _ | | | | • | | | | | |
| OTHER D | OC | UM —— | IEN | ITS | (Ir | ıcl. | Aut | hor, Title, Da | ate, Pertinent Pages, etc.) | | | | |
| | | | | | | | | | | | | | |
| | | | | _ | | | | | , , | | _ | | |
| | | | | | | 1 | | 0// | // | | | | |
| | | | | | | _ | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | _ | | | | | | |
| Examiner | In | <u>L</u> | ب | <u>, </u> | _ | 2 | fr | www | ate Considered 6/16/6 | | | | |
| | | | | | | | | | or not citation is in conform considered. Include copy of | | | | |
| line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | | | | | |

| Sheet | 11 | of | 13 |
|----------|----|----|----|
| J1100t _ | | | 10 |

| | | | | (| 1 | I | P | OUX SE | | | | Sheet | 11 of <u>13</u> |
|---------------------------------------------|-----|-------|----------|----------|-----|-------------------|-------------|---------------|---------------------------------------------------|----------|----------------|---------------|-----------------|
| | | | | 10 | JU | L 3 | 0 2 | uuz œ | | | | | |
| Form PTO- U.S. DEPA COMMERO OFFICE | RTI | ME | | | ANI | <i>Tra</i> D I | DEMP RAI | DEMARK | ATTY. DOCKET NO. 60,132-074 SERIAL NO. 09/674,585 | | | | О. |
| OFFICE | | | | | | | | | APPLICANT: DeWeerd et al. | | | • | |
| | | | | | | | | URE | | | | | |
| 517 | A1E | SIVIE | ZIN | ιв | 1 A | APP. | LIC | ANT | FILING DATE 04/16/02 | | GROUP: 2872 | | |
| | | | | | | | | U.S. PATI | ENT DOCUMENTS | | | | |
| Examiner | D | ocu | me | nt N | lo. | | | Date | Name | Cla | iss | Sub- | Filing |
| Initial | 5 | 7 | 7 | 0 | 7 | 3 | 7 | 06/23/98 | Reinhardt et al. | 540 | 5 | Class 285 | Date 09/18/97 |
| | 5 | 7 | Ī | 又 | 5 | 1 | 9 | 02/10/98 | Sugiyama et al. | 359 | 2 | 368 | 07/03/96 |
| | 5 | 7 | 3 | 7 | 1 | 2 | 7 | 04/07/98 | Dixon | 359 |) | 388 | 07/01/96 |
| <i>Yy</i> | 5 | 7 | 6 | 0 | 9 | 5 | 0 | 06/02/98 | Maket al. | 359 | 9 | 368 | 07/25/96 |
| | 5 | 7 | 6 | 0 | 9 | 0 | 1_ | 96/02/98 | Hill | 350 | 5 | 345 | 01/28/97 |
| 77 | 5 | 7 | 1 | 9 | 3 | 9 | 1 | 02/17/98 | Kain | 250 | | 235 | 03/15/96 |
| 100 | 5 | 7 | 3 | 6 | 4 | 1 | 0 | 04/02/98 | Zarling et al. | 436 | 5 | 172 | 06707/95 |
| <u> </u> | | L_ | <u> </u> | <u> </u> | | L | F | OREIGN P. | ATENT DOCUMENTS | | | | l |
| Examiner Initial | D | ocu | me | nt N | lo. | | | Date | Name | Cla | iss | Sub- Class | Filing Date |
| | | | | | | | | | | | | | |
| | | L | | ļ | | | 1 | MA | 10. | | | | |
| | | | | | | | 7 \ | 7070 | | | | | |
| | | | | | | | | | | | | | |
| OTHER D | ос | UM | E | NTS | (Iı | ıcl. | Aut | hor, Title, D | ate, Pertinent Pages, etc.) | ···· | | | |
| | | | | | | | | | | | | | |
| | | | | | | | _^ | 121 | 17. | | | | |
| | | | | | | | Π | 10/0 | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Examiner | 2 | l | | h | | | / Z | the D | Date Considered 6/161 | 63 | | | |
| | | | | | nce | s co | nsid | | r or not citation is in confor | | | | |
| communica | | | | | | cor | погв | nance and no | t considered. Include copy | or uns r | OHIH | with Hex | |

JUL 3 0 2002 SERIAL NO. ATTY. DOCKET NO. Form PTO-1449 09/674,585 U.S. DEPARTMENT OF 60,132-074 COMMERCE PATENT AND **OFFICE** APPLICANT: DeWeerd et al. INFORMATION DISCLOSURE STATEMENT BY APPLICANT **GROUP:** FILING DATE 2872 04/16/02 U.S. PATENT DOCUMENTS Class Sub-Filing Name Document No. Date Examiner Date Class Initial 204 467 07/08/96 3 05/26/98 Middendorf et al. 700 06/30/88 4 2 2 3 06/05/90 Bronstein et al. 252 9 435 06/02/98 6 6 0 0 7 9 9 4 12/28/99 Ward et al. 10/06/98 04/22/96 435 6 5 8 1 7 4 2 Garini et al. 6 Welmers et al. 250 235 02/10/86 4 6 6 1 6 9 9 04/28/87 231 358 04/10/89 2 2 2 07/16/91 Brown et al. 5 0 3 0 8 3 04/06/93 358 443 11/23/90 2 8 Nudelman et al. 0 FOREIGN PATENT DOCUMENTS Sub-Filing Class Document No. Date Name Examiner Class Date Initial OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent Pages, etc.) Date Considered Examiner Clido3 Examiner: Initial if references considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | 10 | | | | | | | | | |
|-------------------|-----------------------------------------------|----------------------------------------|----------|----------|--------------|----------|----------|----------------|----------------------------------|-------|---------|---------|----------|
| Form PTO- | 144 | 9 | | 13 | | | | .S. | ATTY. DOCKET NO. | | SE | RIAL N | 0. |
| U.S. DEPA | RT | ME. | NT | OX | <u>ر</u> ي ج | _ | | 103) | 60,132-074 09/674,585 | | | | |
| COMMERC | ים ו | יייייייייייייייייייייייייייייייייייייי | PEN | JT. | | RAC | EMA | EMARK | 00,102 07 1 | | | , | |
| _ | JE 1 | A | ۱ اندا | 41 / | -71 V. | DŦ | 1471 | CHIMIN | | | | | |
| OFFICE | | | | | | | | | | | | | |
| | | | | | | | | | APPLICANT: | | | | |
| | | | | | | | | | DeWeerd et al. | | | | |
| | | | | | | | | | | | | | |
| INF | OR. | MA | TI | ON | DI | SCI | OS | URE | | | | | 191 |
| | | | | | | | | ANT | | | | | |
| 317 | 41E | TIVLE | 21 N 1 | D | 1 4 | ИГГ | LIC | -71.4.1 | TIVE DATE | | | CDC | NIID. |
| | | | | | | | | | FILING DATE | | | GRO | |
| | | | | | | | | | 04/16/02 | | | 28 | 72 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | IIC DATI | ENT DOCUMENTS | | | | |
| | 1- | | | | - | | | | | CI | | CL | Tilina |
| Examiner | D | ocu | mei | nt N | 10. | | | Date | Name | Cla | .SS | Sub- | Filing |
| Initial | | | | | | | | | | 1 | | Class | Date |
| - 41 | 5 | 4 | 8 | 3 | 0 | 5 | 5 | 01/09/96 | Thompson et al. | 250 |) | 201-3- | 01/18/94 |
| 1 - C/A- | _ | | - | - | | | | | | | | 1 | |
| -W | 5 | 5 | 3 | 2 | 8 | 7 | 3 | 07/02/96 | Dixon | 359 | (| 388 | 09/08/93 |
| 01/ | | ١ | | - | ľ | | <u> </u> | L | | | | | |
| 1/1 | 5 | 5 | 6 | 1 | 4 | 4 | 9 | 10/01/96 | Raskin et al. | 347 | , | 37 | 07/31/95 |
| M | ٦ | ٦ | Iٽا | * | ~ | " | 1 | 10/01/ | Truskin of un | " | | ٥, | 0 |
| 4 | 5 | 5 | 6 | 1 | 6 | 7 | 1 | 10/01/96 | Avinash | 364 | L | 553 | 10/04/94 |
| \mathrew{M} | ٦ | | ر ا | <u>'</u> | | 1 | 1 | 10/01/90 | Avillasii | 1 50 | · | 555 | 10/04/24 |
| '// // | 5 | 6 | 7 | 5 | 4 | 4 | 3 | 10/07/97 | Dorsel | 359 | | 737 | 07/27/95 |
| 'M/ / | 1 | О | l ′ | ם | 4 | 4 |) | 10/0//9/ | Dorser | 333 | | 700 | 01121193 |
| | - | _ | ┢ | | _ | ┢ | | | | + | | | |
| | <u> </u> | | <u> </u> | | | _ | | | | | | | |
| 1 | - | _ | | - | | <u> </u> | | | | + | | | |
| | ├ | | | | | <u> </u> | <u> </u> | | <u></u> | | | | |
| | L_ | | L | L | | | | | | | | | L |
| | | | | | | | F | OREIGN PA | ATENT DOCUMENTS | | | | |
| | - | | | | | | | | T-22 | Lai | | 0.1 | Lavie |
| Examiner | D | ocu | mei | nt N | lo. | | | Date | Name | Cla | SS | Sub- | Filing |
| Initial | | | | | | | | | | | | Class | Date |
| | | | | | | | | _ | | i | | | |
| | | | | | ŀ | | | | | | | | |
| | П | | | | | | 1 | | 12 | | | | |
| | | i | | | | | // | 1/2/1/ | 10 | | | 1 | |
| | | | | | | | | 1110 | | 1 | | | |
| | | | | | | 1 | | | | | | | |
| | \vdash | | | _ | | \vdash | | | | | | | |
| | | | | | | | l . | | | | | | |
| OTHED D | $\frac{1}{1}$ | | | JTE | /T- | <u></u> | A+ | hor Title D | ate, Pertinent Pages, etc.) | - | | | - |
| | | ואוט | LILL | 113 | (11 | ıcı. | Aut | nor, rine, D | att, i ei iment i ages, etc.) | | | | |
| <u> </u> | | _ | - | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | - | | | | | | | | | |
|] | | | | | | | | | • | | | | |
| | | | | | | 1 | 1 | -21 | <i> </i> | | | | |
| | | | | | | /[| / | // /(/ | | | | | |
| | | | | | / | | <u> </u> | | | | | | |
| | | | | | í | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| <u> </u> | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | ,, | | | | ~ | | | | | | |
| Examiner | Examiner John 2 Partiet Date Considered 6/663 | | | | | | | | | | | | |
| | 4/8 | | er | u | | <u>_</u> | M | receive | 61403 | | | | |
| Examiner: I | nitia | al if | ref | ere | nce | s co | nsid | ered, whether | r or not citation is in conforma | nce w | ith l | MPEP 60 | 9. Draw |
| | | | | | | | | | considered. Include copy of | | | | |
| communicati | | | | | | | | | | | | | |
| i communica | นบน | w | որբ | 1104 | .116. | | | | | | | | |